

## Product datasheet for **TP727681**

### CD32A (FCGR2A) Human Recombinant Protein

#### Product data:

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Recombinant Human Fc gamma RIIa/FCGR2A/CD32a (C-6His,H131)
<b>Species:</b>	Human
<b>Expression cDNA Clone or AA Sequence:</b>	Ala36-Ile218(His131Arg)
<b>Tag:</b>	C-His
<b>Buffer:</b>	Lyophilized from a 0.2 um filtered solution of PBS, pH 7.4.
<b>Note:</b>	Recombinant Human Low Affinity Immunoglobulin Gamma Fc Region Receptor II-A is produced by our Mammalian expression system and the target gene encoding Ala36-Ile218 is expressed with a 6His tag at the C-terminus.
<b>Stability:</b>	12 months from date of despatch
<b>Locus ID:</b>	2212
<b>UniProt ID:</b>	<a href="#">P12318</a>
<b>Summary:</b>	Human Fc $\gamma$ Rs are divided into three classes designated Fc $\gamma$ RI (CD64), Fc $\gamma$ RII (CD32), and Fc $\gamma$ RIII (CD16), which generate multiple isoforms, are recognized. The activating type receptor either has or associates noncovalently with an accessory subunit that has an immunoreceptor tyrosine-based activation motif (ITAM) in its cytoplasmic domain. Fc $\gamma$ RI binds IgG with high affinity and functions during early immune responses, whereas Fc $\gamma$ RII and RIII are low affinity receptors that recognize IgG as aggregates surrounding multivalent antigens during late immune responses. Human CD32, also known as Low affinity immunoglobulin $\gamma$ Fc region receptor II-a (IgG Fc receptor II-a), Fc $\gamma$ RII A or FCGR2A Protein, is expressed on cells of both myeloid and lymphoid lineages as well as on cells of non-hematopoietic origin. Associated with an ITAM-bearing adapter subunit, Fc $\gamma$ RII A delivers an activating signal upon ligand binding, and results in the initiation of inflammatory responses including cytolysis, phagocytosis, degranulation, and cytokine production. The responses can be modulated by signals from the co-expressed inhibitory receptors such as Fc $\gamma$ RII B, and the strength of the signal is dependent on the ratio of expression of the activating and inhibitory receptors.



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